

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2004/004014

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01V15/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01V G08B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 096 182 A (ALLIED CORP) 21 December 1983 (1983-12-21) page 4, line 26 - line 35 page 7, line 2 - line 25 page 24, line 22 - line 24 figures 1,4	1-3,10
X	US 4 940 966 A (DAVIES DAFYDD G ET AL) 10 July 1990 (1990-07-10) column 2, line 1 - line 27 column 2, line 50 - line 55 column 2, line 59 - line 61 column 3, line 4 - line 50 column 3, line 62 - column 4, line 38 column 5, line 28 - line 34 column 6, line 40 - line 52 claims 1,2 figures 3,4	1-3,10

-/-



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*G\* document member of the same patent family

Date of the actual completion of the international search

24 November 2004

Date of mailing of the international search report

02/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Schneiderbauer, K

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2004/004014

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 729 201 A (SCHROTT ALEJANDRO GABRIEL ET AL) 17 March 1998 (1998-03-17) column 3, line 1 - line 8 column 6, line 23 - line 26 column 7, line 4 - line 12 column 7, line 32 - line 36 column 8, line 33 - line 43 figures 2,6	1-3,10
X	WO 00/05694 A (ARNOLD DAVID HOWARD ; FLYING NULL LTD (GB); CROSSFIELD MICHAEL DAVID ()) 3 February 2000 (2000-02-03) page 2, line 13 - line 15 page 8, line 7 - page 9, line 13 figures 1,3	1,22
X	US 6 204 766 B1 (COGGILL CHRISTOPHER JOHN ET AL) 20 March 2001 (2001-03-20) column 2, line 32 - line 57 column 3, line 33 - line 52 column 5, line 36 - line 41 claim 1	1,22
A	US 5 965 214 A (COGGILL CHRISTOPHER JOHN ET AL) 12 October 1999 (1999-10-12) column 2, line 10 - line 13 column 2, line 38 - line 42 column 3, line 31 - column 4, line 9 figures 1,2	1-24
A	US 6 371 379 B1 (DAMES ANDREW NICHOLAS ET AL) 16 April 2002 (2002-04-16) cited in the application column 1, line 49 - line 56 column 2, line 30 - line 40 column 4, line 3 - line 13 column 5, line 32 - line 55 column 6, line 9 - line 35 column 7, line 54 - line 67 claims 16,33-35; figures 1a,7	1-24
A	US 5 420 569 A (DAMES ANDREW N ET AL) 30 May 1995 (1995-05-30) column 3, line 58 - line 66 column 4, line 13 - line 22 column 7, line 11 - line 34 claims 2,14,15,20	1-24

## INTERNATIONAL SEARCH REPORT

 International Application No  
 PCT/GB2004/004014

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0096182	A	21-12-1983	US 4510490 A	09-04-1985
			AT 41538 T	15-04-1989
			AU 560069 B2	26-03-1987
			AU 1294983 A	08-12-1983
			BR 8302200 A	17-04-1984
			CA 1200872 A1	18-02-1986
			DE 3379433 D1	20-04-1989
			EP 0096182 A2	21-12-1983
			ES 8407594 A1	16-12-1984
			ES 8600815 A1	01-02-1986
			JP 1412501 C	27-11-1987
			JP 58219677 A	21-12-1983
			JP 62014873 B	04-04-1987
			MX 158590 A	16-02-1989
			ZA 8302269 A	27-06-1984
US 4940966	A	10-07-1990	AT 88294 T	15-04-1993
			AU 613045 B2	25-07-1991
			AU 1746388 A	08-12-1988
			BR 8802873 A	03-01-1989
			CA 1291244 C	22-10-1991
			DE 3855645 D1	12-12-1996
			DE 3880202 D1	19-05-1993
			DE 3880202 T2	05-08-1993
			DK 58089 A	08-02-1989
			DK 171570 B1	13-01-1997
			EP 0295028 A1	14-12-1988
			EP 0295085 A1	14-12-1988
			ES 2040343 T3	16-10-1993
			WO 8809979 A1	15-12-1988
			JP 1064207 A	10-03-1989
			JP 2643312 B2	20-08-1997
			JP 1503577 T	30-11-1989
			NO 882504 A ,B,	09-12-1988
			US 4960651 A	02-10-1990
US 5729201	A	17-03-1998	US 5831532 A	03-11-1998
WO 0005694	A	03-02-2000	AU 5054599 A	14-02-2000
			WO 0005694 A1	03-02-2000
US 6204766	B1	20-03-2001	AT 230495 T	15-01-2003
			AU 717142 B2	16-03-2000
			AU 4562997 A	17-04-1998
			BR 9712147 A	04-12-2001
			CA 2267457 A1	02-04-1998
			CN 1235677 A	17-11-1999
			DE 69718181 D1	06-02-2003
			DE 69718181 T2	15-05-2003
			EP 0928430 A1	14-07-1999
			ES 2187823 T3	16-06-2003
			WO 9813708 A1	02-04-1998
			JP 2001501005 T	23-01-2001
			KR 2000048703 A	25-07-2000
			RU 2183846 C2	20-06-2002
US 5965214	A	12-10-1999	GB 2312595 A ,B	29-10-1997

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2004/004014

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 6371379	B1	16-04-2002	AT	221209 T		15-08-2002
			AU	4725096 A		18-02-1997
			CA	2227170 A1		06-02-1997
			CN	1193388 A ,B		16-09-1998
			DE	69622566 D1		29-08-2002
			DE	69622566 T2		30-01-2003
			EP	0839330 A1		06-05-1998
			ES	2180734 T3		16-02-2003
			WO	9704338 A1		06-02-1997
			JP	11509323 T		17-08-1999
			RU	2183033 C2		27-05-2002
<hr/>						
US 5420569	A	30-05-1995	AT	151526 T		15-04-1997
			AU	1155692 A		17-08-1992
			AU	1156692 A		17-08-1992
			CN	1063951 A ,B		26-08-1992
			DE	69218917 D1		15-05-1997
			DE	69218917 T2		11-09-1997
			DK	565583 T3		06-10-1997
			EP	0565583 A1		20-10-1993
			EP	0565584 A1		20-10-1993
			ES	2101081 T3		01-07-1997
			FI	933036 A		01-07-1993
			WO	9212401 A2		23-07-1992
			WO	9212402 A1		23-07-1992
			GR	3024021 T3		31-10-1997
			IE	920030 A1		15-07-1992
			IN	186832 A1		17-11-2001
			JP	6507476 T		25-08-1994
			JP	3314873 B2		19-08-2002
			JP	7503061 T		30-03-1995
			KR	206672 B1		01-07-1999
			NO	932435 A		25-08-1993
			NZ	241215 A		26-07-1995
			US	5621316 A		15-04-1997